

Ex. No.: 1

Date: 26/9/24

Calculate Area and Perimeter

Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:

STEP 1: START

STEP 2: INPUT side

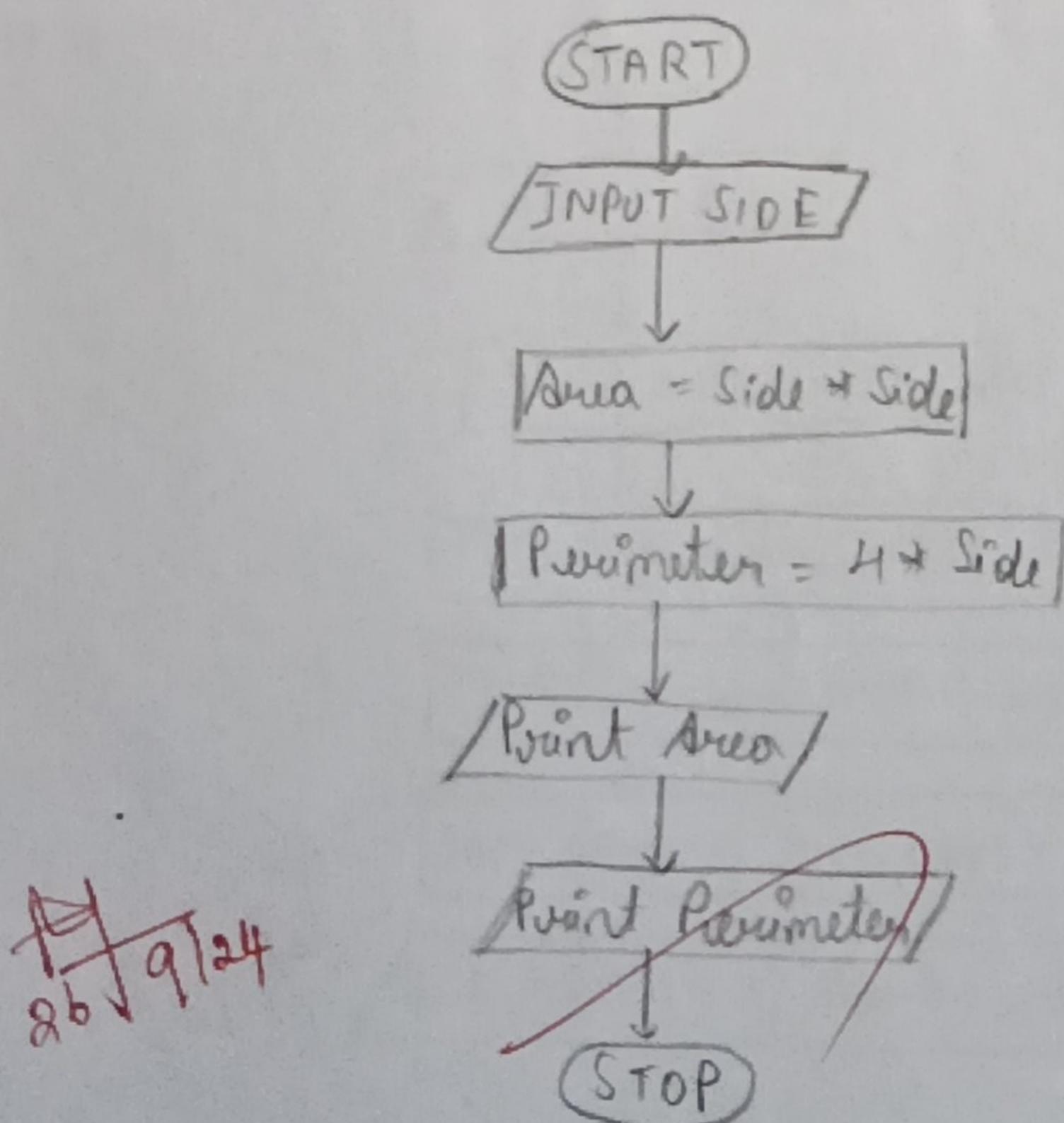
STEP 3: Area = Side * Side

STEP 4: Perimeter = 4 * Side

STEP 5: Output Area (or) print Area

STEP 6: Output Perimeter (or) print Perimeter

STEP 7: STOP

Flowchart:

Ex. No.: 2

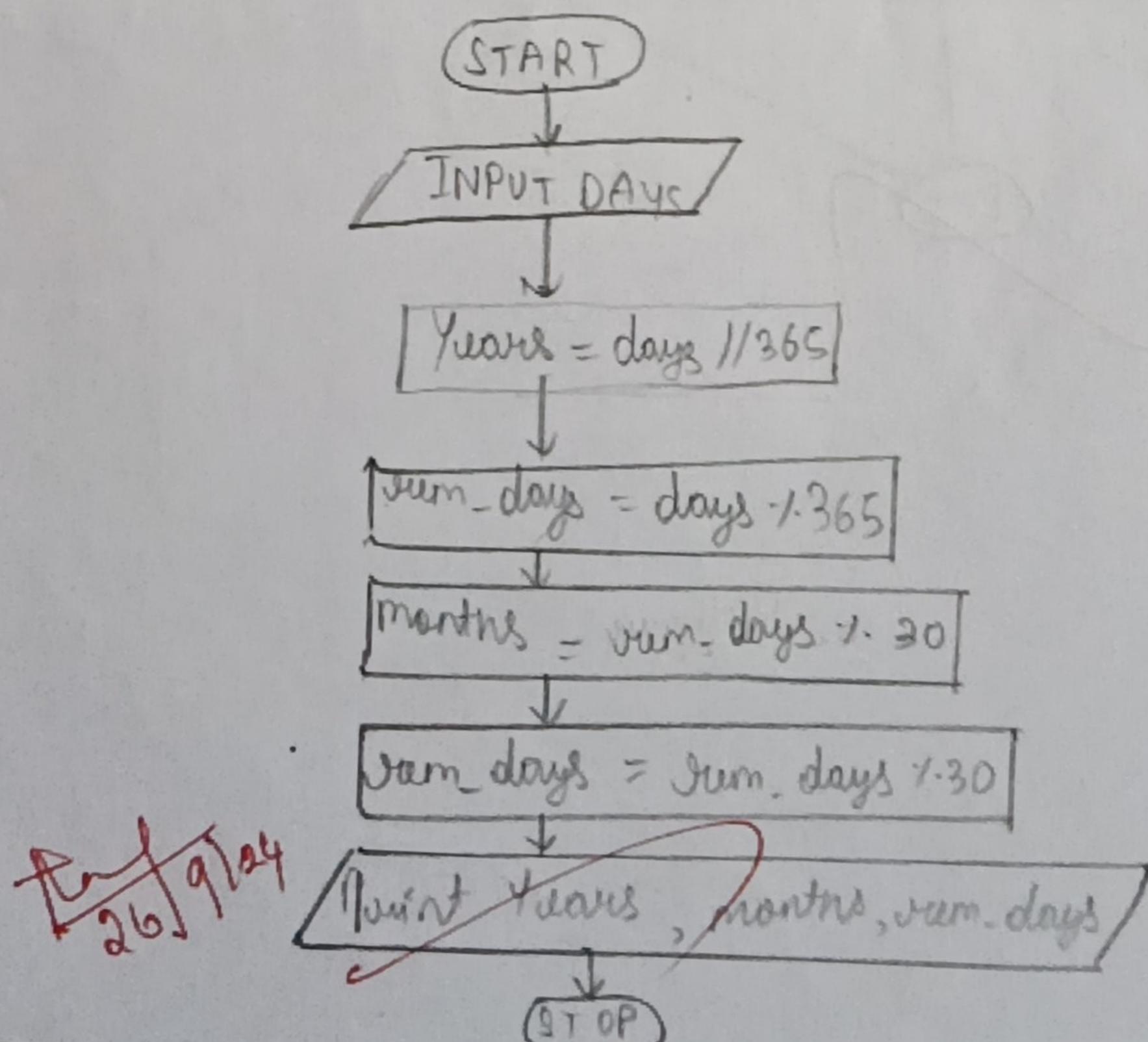
Date: 26/9/24

Days to Year Conversion

Write an Algorithm and draw a Flowchart to convert the given days into years & months.

Algorithm:

STEP 1: START
 STEP 2: INPUT DAYS
 STEP 3: Years = days // 365
 STEP 4: rem-days = days % 365
 STEP 5: months = rem-days // 30
 STEP 6: rem-days = rem-days % 30
 STEP 7: print Years, months, rem-days.
 STEP 8: STOP

Flowchart:

Ex. No.: 3

Date: 26/9/24

Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

STEP1: START

STEP2: INPUT VALUE_N

STEP3: $S_1 = \text{VALUE_N} \% 2$ $S_2 = \text{VALUE_N} \% 3$ $S_3 = \text{VALUE_N} \% 7$

STEP4: If $S_1 = 0$ (or) $S_2 = 0$ (or) $S_3 = 0$ L = Prime

STEP5: ELSE L = composite

STEP6: Print L

STEP7: STOP

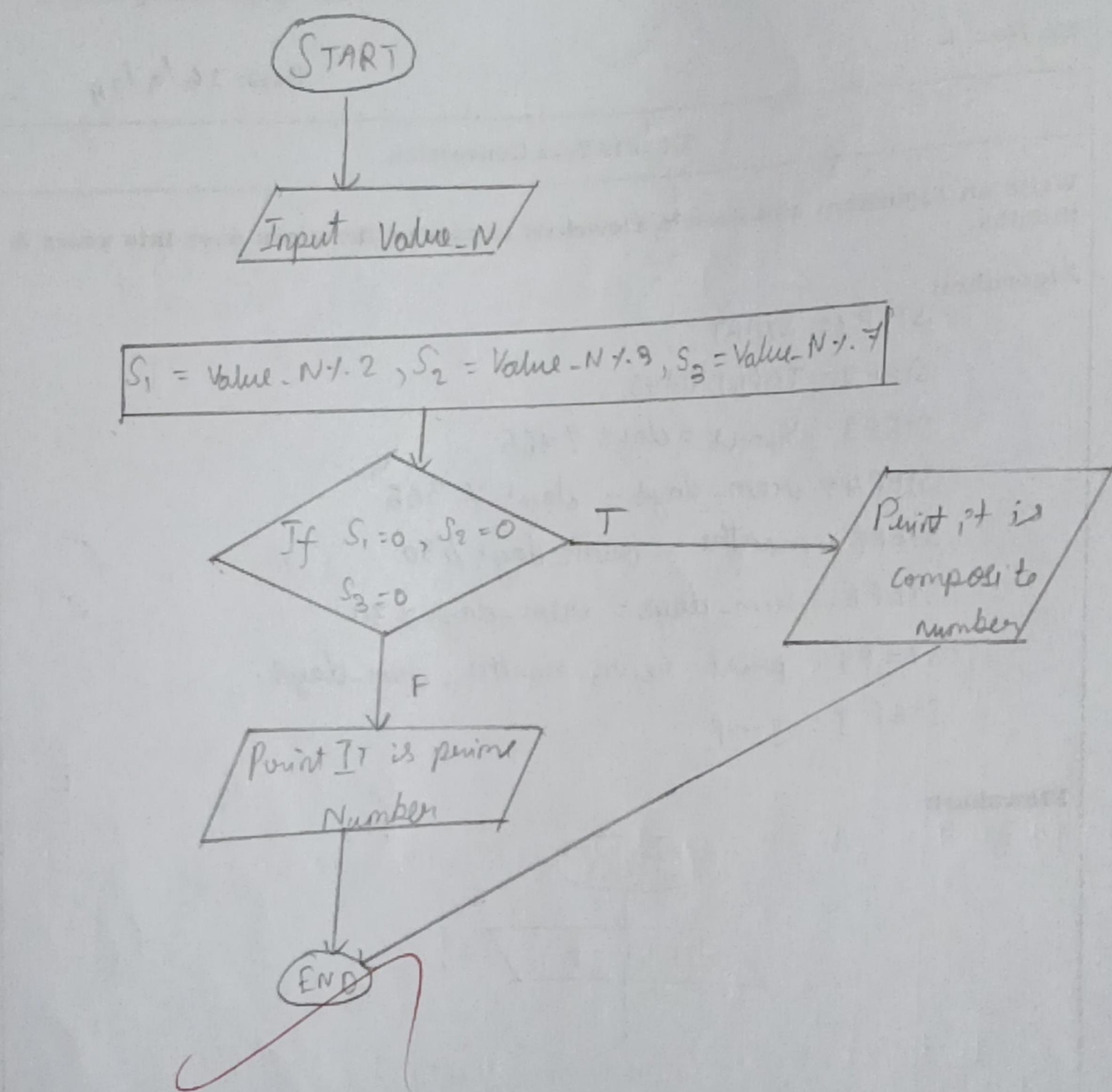
Flowchart:



~~26/9/24~~

Roll.no. 240801163

Name : Keerthibalan G



Adm No.: 2H0801163

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GE23131 - Programming Using C

Ex. No.: H

Date: 28/9/24

Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

Algorithm:

STEP 1: START

STEP 2: INPUT Y

STEP 3: If $Y \div 4 == 0$ go to step 4 else Point Y is not leap Year

STEP 4: If $Y \div 100 == 0$ go to step 5 else Point Y is leap Year

STEP 5: If $Y \div 400 == 0$ go to step 8

STEP 6: Point Y is a leap Year

STEP 7: Point Y is not a leap Year

STEP 8: Point Y is not a leap Year

STEP 9: Point Y is not a leap Year

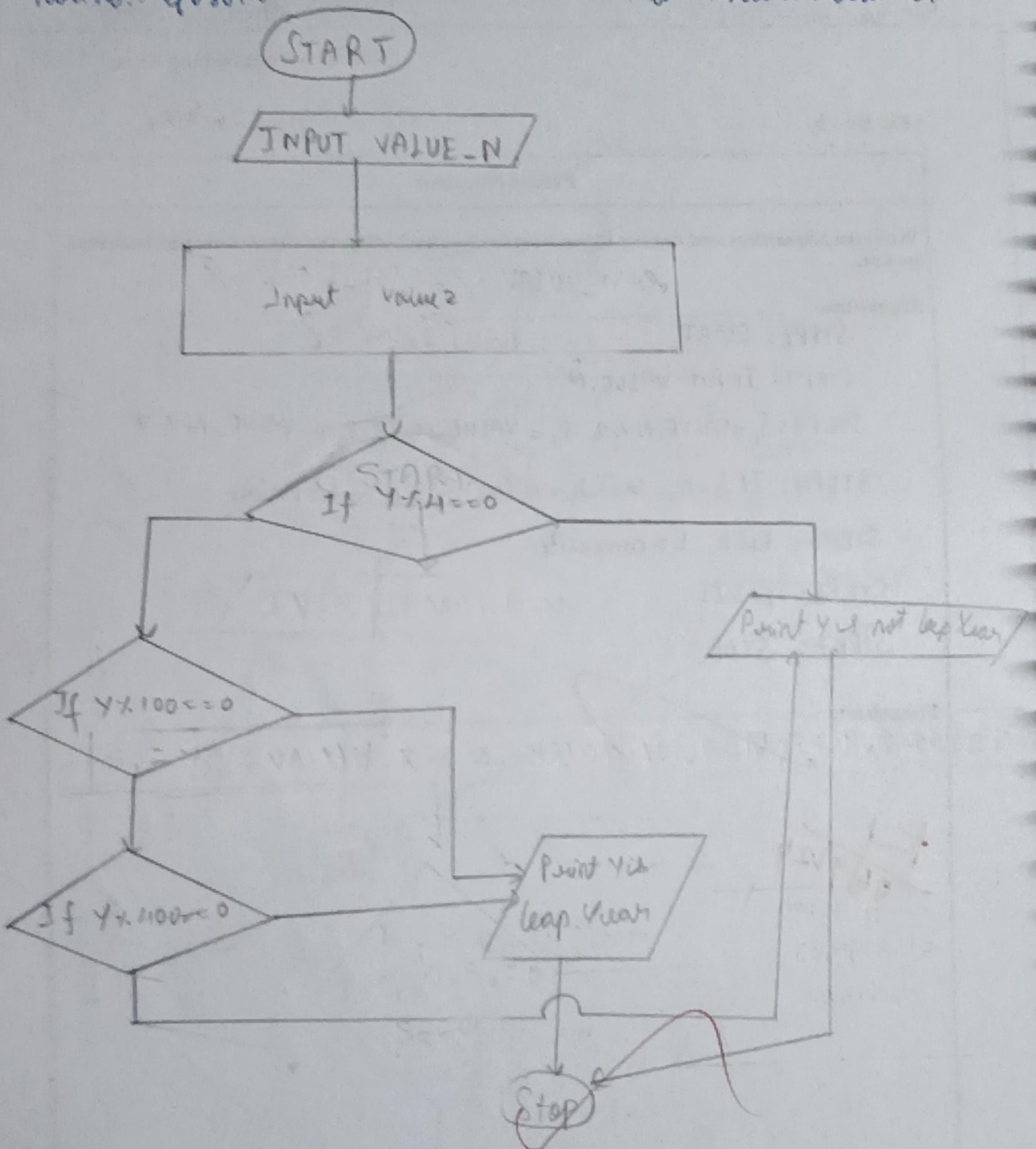
Flowchart:

STEP 10: STOP

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Ex. No.: 5

Date: 28/9/24

Palindrome Number

Write an Algorithm and draw a Flowchart to check whether the given number is palindrome number or not.

Algorithm: STEP1: START

STEP2: INPUT the number n

STEP3: Initially j :
set original = n & reversed = 0

STEP4: while $n > 0$

Set digit = $n \bmod 10$

update reversed = reversed $\times 10 + digit$

update $n = n \div 10$

STEP5: if original = reversed

Print "Palindrome"

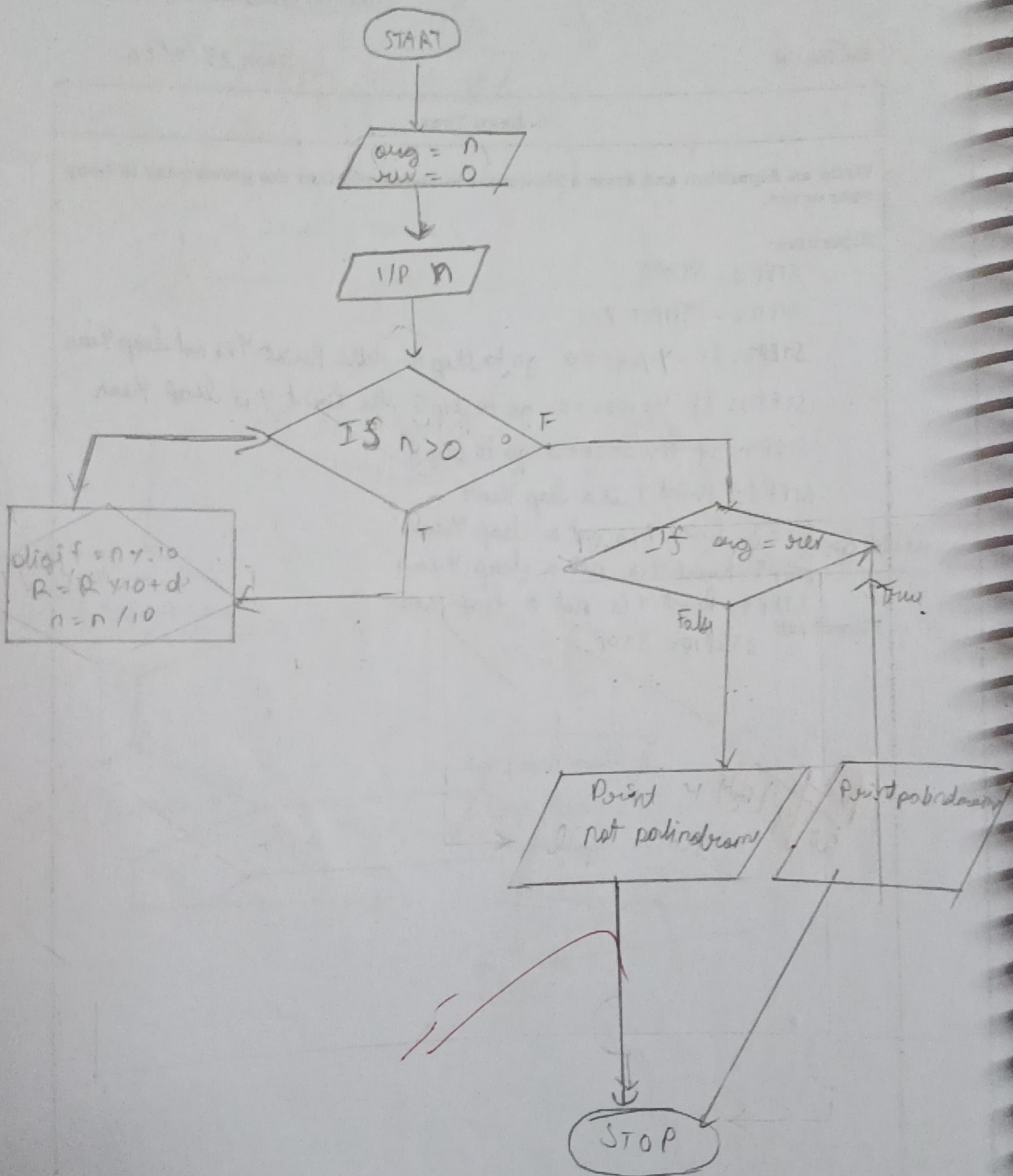
Flowchart: STEP6: else:
print "not Palindrome"

STEP7: STOP

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Ex. No.: 6

Date: 28/9/24

Sum of Digits

Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm: STEP 1: START

STEP 2: I/P the number (n)

STEP 3: Initially sum=0

STEP 4: Repeat the following Steps while n is greater than 0.

- extract the last digit of n :

$$\text{digit} = n \% 10$$

- Add the digits to sum:

$$\text{sum} = \text{sum} + \text{digit}$$

- Remove the last digit from n :

$$n = n // 10$$

Flowchart:

STEP 5: O/P the sum

STEP 6: END

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Roll no.: 240801163

Name: Kirthibalan G

